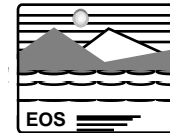


Project Introduction

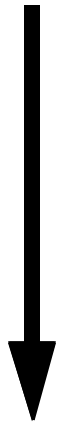
John Dalton
Deputy Associate Director for ESDIS

ESDIS

•Risk Mitigation vs Technology Evolution

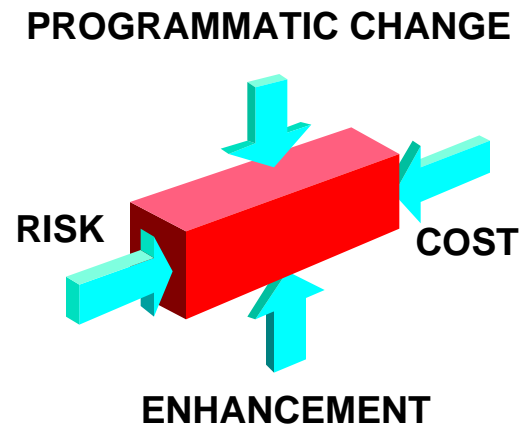


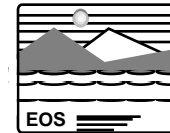
Mission
Critical



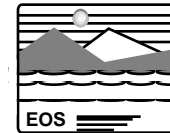
Mission
Success

- **EOSDIS Functions**
- Control spacecraft and instruments
- Capture and deliver data stream
- Produce and archive products
- Provide base pull services (standard products)
- Provide linkages to SCFs for push and pull services
- Provide infrastructure for linkages to external pull services
- Enable enhanced pull services, anticipate "ripple back" effect to standard products
- Support development of enhanced pull services





- **Research is more likely to succeed in the technology insertion process IF**
 - it is targeted towards EOSDIS architecture / components
 - it recognizes EOSDIS requirements and constraints
- **Research results require**
 - independent technology assessment addressing EOSDIS technology criteria or
 - “self-assessment” by researchers
- **ESDIS approach involves EOSDIS Technology Transfer Testbed (which will be discussed in detail Wednesday by K. Moe)**
 - easy access for technology demonstrations
 - stricter criteria for accepting technology for test and evaluation (must show promise of cost benefit, functional enhancement)
- **Project plans to release a Cooperative Agreement Notice in early 1996 for further applied research for EOSDIS**



- **Implications of continuing budget constraints**
 - operations cost reductions/automation
 - use of Internet
- **Technology Implications of the La Jolla NRC report**
 - competitively selected data centers with more diverse, less integrated systems
 - more dynamic opportunities for technology insertion, but multiple targets and less leverage because of diversity and autonomous nature of data centers
- **Implications of continuing, dramatic growth in info systems technology**
 - leveraging WWW, mass storage, networking advances
- **Working the ECS schedule and finding opportunities for improvements (for example)**
 - VO IMS Web client
 - Hot Java prototyping
 - DBMS migration (Sybase to Illustra in Rel B)
- **Project desires and needs productive interaction with the information systems technology community**